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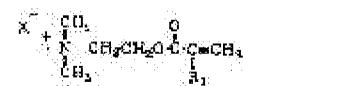
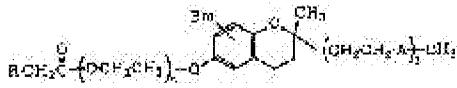
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(54) CATIONIC VITAMIN E DERIVATIVE, ITS PRODUCTION AND AMPHIPHILIC POLYMER VEHICLE PREPARED BY USING THE SAME

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a cationic vitamin E derivative which has thermodynamic stability, excellent biocompatibility and can form amphiphilic polymer vehicle having antioxidative physiological activity function by introducing a polymerizable (meth) acrylate group.

SOLUTION: This compound is represented by formula I [A is propylene, $\text{CH}=\text{C}(\text{CH}_3)$; B is methyl bonding to at least one position among 5-, 7- and 8-positions; R is a group of formula II (R1 is H, methyl; X is halogen); (m) is 1-3; (n) is 0-50]. The objective compound is prepared, for



example, by reaction of a compound of formula III with a haloacetoacid (or its anhydride) to form a compound of formula IV, then, allowing the compound of formula IV to react with 2-(dimethylamino) ethyl (meth) acrylate.